We claim:

1.   1. A method for transmission of information in a communication system using ARQ

2.   with IR, the method comprises:

3.   providing, in information to be transmitted, identification information

4. and an information status flag having a certain value indicating whether the information

5. to be transmitted is NEW information or CONTINUE information;

6.   waiting to receive an interrupt signal from a scheduling algorithm

7.   resulting

8. from the information being applied to the scheduling algorithm; and

9.   transmitting the information upon reception of the interrupt signal from

10. the scheduling algorithm thus allowing transmissions to occur in an asynchronous

11. manner.

1.   2. The method of claim 1 where the step of waiting to receive an interrupt signal further

2.   comprises

3.   waiting for a confirmation message in response to a previous

4. transmission; and

5.   applying NEW information to be transmitted to the scheduling algorithm

6. upon reception of a positive confirmation message in response to a previous transmission

7. or selecting CONTINUE information and applying such CONTINUE information to the

8. scheduling algorithm upon reception of a negative confirmation message in response to a

9. previous transmission.

1.   3. The method of claim 1 where the step of transmitting information upon reception

2. of the interrupt signal from the scheduling algorithm further comprises selecting NEW

3. information and applying said NEW information to the scheduling algorithm when an

4. established maximum number of retransmissions of the transmitted information has been

5. reached.

1   4. The method of claim 3 where any remaining CONTINUE information is
2   discarded.

1   5. The method of claim1 where the information status flag is a one-bit
2   NEW/CONTINUE flag.